

Claims

1. A terminal device comprising:
means for receiving as input a destination of a message that is to be transmitted and a position at which the message is to be received; and
means for appending to said message position information that
5 indicates said position that has been received as input.

2. A terminal device according to claim 1, further comprising position-acquisition means for acquiring the current position information;
wherein said appending means appends to said message position information that has been acquired by said position-acquisition means as
5 position information of the position at which the message is to be received.

3. A terminal device comprising:
position-acquisition means for receiving a position request from a server device and then acquiring a position; and
a position information transmission means for transmitting position
5 information that has been acquired by said position-acquisition means to said server device.

4. A server device for delivering a message that has been transmitted from a terminal device that is a transmission origin to a terminal device that is the transmission destination; said server device comprising:
message storage means for, upon receiving a message that has been
5 transmitted from a terminal device that is a transmission origin, storing the message that has been received;

position request means for extracting a destination address and position information from a message that has been stored in said message storage means and submitting a position request to the terminal device that is the transmission destination that is indicated by the destination address; and

message management means for transmitting the message to said terminal device that is the transmission destination when position information that has been appended to said message matches with position information from said terminal device that is the transmission destination that has been transmitted in response to said position request.

5. A server device for delivering a message that has been transmitted from a terminal device that is a transmission origin to a terminal device that is a transmission destination, the server device comprising:

message storage means for storing messages;

5 position request means for, upon receiving a message that has been transmitted from a terminal device that is a transmission origin, submitting a position request to the terminal device that is the transmission origin of the message that has been received, and further, extracting a destination address and position information from a message that is stored in said message storage means and submitting a position request to the terminal device that is the transmission destination of the destination address;

10 appending means for appending position information of said terminal device that is the transmission origin that has been transmitted in response to a position request to said terminal device of the transmission origin to said

15 message as position information of the position at which the message is to
be received and storing in said message storage means; and
message management means for transmitting the message to said
terminal device that is the transmission destination when position information
of said terminal device that is the transmission destination and that has been
20 transmitted in response to a position request to said terminal device that is
the transmission destination matches with position information that has been
appended to said message.

6. A message transmitting and receiving system for delivering a
message that has been transmitted from a terminal device that is a
transmission origin to a terminal device that is a transmission destination,
said message transmitting and receiving system comprising:

5 a terminal device that is the transmission origin that includes:
means for receiving as input the destination of a message and the
position at which the message is to be received, and appending means for
appending to said message position information that indicates said position
that has been received as input;

10 a server device that includes:
message storage means for, upon receiving a message that
has been transmitted from said terminal device that is the transmission
origin, storing the message that has been received;

15 position request means for extracting a destination address
and position information from a message that has been stored in said
message storage means and submitting a position request to a terminal

device that is the transmission destination that is indicated by said destination address; and

message management means for transmitting said message to
20 said terminal device that is the transmission destination when position information that has been appended to said message matches with position information from said terminal device that is the transmission destination that has been transmitted in response to said request for position; and

a terminal device that is the transmission destination that includes:
25 first position-acquisition means for receiving a position request from said server device and acquiring position; and position information transmission means for transmitting position information that has been acquired by said first position-acquisition means to said server device.

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7. A message transmitting and receiving system according to claim 6, wherein:

said terminal device that is the transmission origin further includes
second position-acquisition means for acquiring the current position
5 information;

said appending means appends position information that has been acquired by said second position-acquisition means to said message as position information of a position at which the message is to be received.

8. A message transmitting and receiving system for transmitting a message that has been transmitted from a terminal device that is a

transmission origin to a terminal device that is a transmission destination,
said message transmitting and receiving system comprising:

5 a terminal device that is the transmission origin that includes:

 first position-acquisition means for receiving a position request
from said server device and acquiring position; and

 position information transmission means for transmitting
position information that has been acquired by said first position-acquisition
10 means to said server device;

 a server device that includes:

 message storage means for storing messages;

 position request means for, upon receiving a message that has
been transmitted from a transmission origin terminal device, submitting a
15 position request to the terminal device that is the transmission origin of the
message that has been received, and further, extracting the destination
address and position information from a message that has been stored in
said message storage means and submitting a position request to the
transmission destination terminal device of the destination address;

20 appending means for appending to said message position
information of said terminal device that is the transmission origin that has
been transmitted in response to the position request to said terminal device
that is the transmission origin as position information of the position at which
the message is to be received and storing the message in said message

25 storage means; and

 message management means for transmitting the message to
said terminal device that is the transmission destination when position
information that has been appended to said message matches with position

information of said terminal device that is the transmission destination that
30 has been transmitted in response to the position request to said terminal
device that is the transmission destination; and
a terminal device that is the transmission destination that includes:
second position-acquisition means for accepting a position
request from said server device and then acquiring position; and
35 position information transmission means for transmitting position information
that has been acquired by said second position-acquisition means to said
server device.

9. A message transmitting and receiving method, comprising
steps wherein:

in a terminal device that is a transmission origin, a destination to
which a message is to be transmitted and a position at which the message is
5 to be received are received as input; and
said terminal device that is the transmission origin appends position
information that indicates said position that has been received as input to
said message and then transmits said message.

10. A message transmitting and receiving method according to
claim 9, further comprising a step of:

acquiring the current position information of said terminal device that
is the transmission origin

5 wherein, in said step of appending position information to said
message, said acquired position information is appended to said

transmission message as position information of the position at which the transmission message is to be received.

11. A message transmitting and receiving method, comprising steps wherein:

a terminal device that is a transmission destination accepts a position request from a server device and acquires position; and

5 said terminal device that is the transmission destination transmits said position information that has been acquired to said server device.

12. A message transmitting and receiving method for delivering a message that has been transmitted from a terminal device that is a transmission origin to a terminal device that is a transmission destination, said message transmitting and receiving method comprising steps of:

5 upon receiving a message that is transmitted from a terminal device that is a transmission origin, storing the message that has been received;

extracting a destination address and position information from a message that has been stored and submitting a position request to a transmission destination terminal device of the destination address;

10 transmitting the transmission message to said transmission destination terminal device when position information that has been appended to said transmission message matches with position information from said transmission destination terminal device that has been transmitted in response to said position request.

13. A message transmitting and receiving method for delivering a message that has been transmitted from a terminal device that is a transmission origin to a terminal device that is a transmission destination, said message transmitting and receiving method comprising steps of:

- 5 upon receiving a message that is transmitted from a terminal device that is a transmission origin, submitting a position request to the terminal device that is the transmission origin that has transmitted in the message that was received;
- 10 appending position information of said terminal device that is the transmission origin that has been transmitted in response to the position request to said terminal device that is the transmission origin to said transmission message as position information of the position at which said transmission message is to be received and storing said transmission message;
- 15 extracting a destination address and position information from a message that has been stored and submitting a position request to the transmission destination terminal device of the destination address; and
 transmitting the transmission message to said transmission destination terminal device when position information that has been
- 20 appended to said transmission message matches with position information from said transmission destination terminal device that has been transmitted in response to said position request.

14. A message transmitting and receiving method for delivering a message that has been transmitted from a terminal device to a terminal

device that is a transmission destination, said message transmitting and receiving method comprising steps wherein:

- 5 the terminal device that is the transmission origin receives as input a destination of a transmission message and a position at which the transmission message is to be received;
 - the terminal device that is the transmission origin appends position information that indicates the position that has been received as input to said
- 10 transmission message;
 - a server device, upon receiving a message that is transmitted from the terminal device that is the transmission origin, stores the message that has been received;
 - said server device extracts a destination address and position
- 15 information from the message that has been stored and submits a position request to the transmission destination terminal device of the destination address;
 - the terminal device that is the transmission destination receives the position request from said server device and acquires position;
- 20 said terminal device that is the transmission destination transmits the acquired position information to said server device; and
 - said server device transmits the transmission message to said transmission destination terminal device when position information that is appended to said transmission message matches with position information
- 25 from said transmission destination terminal device that has been transmitted in response to said position request.

15. A message transmitting and receiving method according to
claim 14, further comprising a step wherein:
said terminal device that is the transmission origin acquires current position
information;

5 wherein, in the step of appending position information to said
message, said terminal device that is the transmission origin appends said
position information that has been acquired to said message as position
information of the position at which the message is to be received.

16. A message transmitting and receiving method for delivering a
message that has been transmitted from a terminal device to a terminal
device that is a transmission destination, said message transmitting and
receiving method comprising steps wherein:

5 a server device, upon receiving a message that has been transmitted
from a terminal device that is the transmission origin, submits a position
request to the terminal device that is the transmission origin that has
transmitted the message that has been received;

10 said terminal device that is the transmission origin receives the
position request from said server device and acquires its position;

15 said server device appends the position information of said terminal
device that is the transmission origin that has been transmitted in response
to the position request to said terminal device that is the transmission origin
to said transmission message as position information of the position at which
the message is to be received and stores the message;

 said server device extracts a destination address and position
information from the message that has been stored and submits a position

request to the transmission destination terminal device of the destination address;

20 the terminal device that is the transmission destination receives the position request from the server device and acquires position;

 said terminal device that is the transmission destination transmits said position information that has been acquired to said server device;

 said server device transmits the transmission message to said

25 transmission destination terminal device when position information that is appended to said transmission message matches with position information from said transmission destination terminal device that has been transmitted in response to said position request.

17. A program for causing a computer to execute processes wherein:

 in a terminal device that is a transmission origin, a destination to which a message is to be transmitted and a position at which the message is

5 to be received are received as input; and

 said terminal device that is the transmission origin appends position information that indicates said position that has been received as input to said message and then transmits said message.

18. A program according to claim 9 for causing a computer to execute further processes of:

 acquiring current position information of said terminal device that is the transmission origin

5 appending said position information that has been acquired to said transmission message as position information of the position at which the transmission message is to be received.

19. A program for causing a computer to execute processes wherein:

a terminal device that is the transmission destination receives a position request from a server device and acquires position; and

5 said terminal device that is the transmission destination transmits said position information that has been acquired to said server device.

20. A program for causing a computer to execute a message transmitting and receiving method for delivering a message that has been transmitted from a terminal device that is a transmission origin to a terminal device that is a transmission destination, said program causing a computer 5 to execute processes of:

upon receiving a message that has been transmitted from a terminal device that is a transmission origin, storing the message that has been received;

extracting a destination address and position information from the 10 message that has been stored and submitting a position request to the transmission destination terminal device of the destination address; and transmitting the transmission message to said transmission destination terminal device when position information that is appended to said transmission message matches with position information from said

15 transmission destination terminal device that has been transmitted in response to said position request.

21. A program for causing a computer to execute a message transmitting and receiving method for delivering a message that has been transmitted from a terminal device that is a transmission origin to a terminal device that is a transmission destination, said program causing a computer 5 to execute processes of:

upon receiving a message that is transmitted from a terminal device that is a transmission origin, submitting a position request to the terminal device that is the transmission origin that has transmitted in the message that was received;

10 appending position information of said terminal device that is the transmission origin that has been transmitted in response to the position request to said terminal device that is the transmission origin to said transmission message as position information of the position at which said transmission message is to be received and storing said transmission 15 message;

extracting a destination address and position information from a message that has been stored and submitting a position request to the transmission destination terminal device of the destination address; and

transmitting said transmission message to said transmission 20 destination terminal device when position information that has been appended to said transmission message matches with position information from said transmission destination terminal device that has been transmitted in response to said position request.

22. A program for causing a computer to execute a message transmitting and receiving method for delivering a message that has been transmitted from a terminal device to a terminal device that is a transmission destination, said program causing a computer to execute processes wherein:

- 5 a terminal device that is the transmission origin receives as input a destination of a transmission message and a position at which said transmission message is to be received;
 - the terminal device that is the transmission origin appends position information that indicates the position that has been received as input to said transmission message;
 - a server device, upon receiving a message that is transmitted from the terminal device that is the transmission origin, stores the message that has been received;
 - said server device extracts a destination address and position information from the message that has been stored and submits a position request to the transmission destination terminal device of the destination address;
 - the terminal device that is the transmission destination receives the position request from said server device and acquires position;
- 10 said terminal device that is the transmission destination transmits the acquired position information to said server device; and
- 15 said server device transmits the transmission message to said transmission destination terminal device when position information that is appended to said transmission message matches with position information

25 from said transmission destination terminal device that has been transmitted
in response to said position request.

23. A program according to claim 22 for causing a computer to
execute further processes wherein:

said terminal device that is the transmission origin acquires current
position information;

5 said terminal device that is the transmission origin appends said
position information that has been acquired to said message as position
information of the position at which said message is to be received.

24. A program for causing a computer to execute a message
10 transmitting and receiving method for delivering a message that has been
transmitted from a terminal device to a terminal device that is a transmission
destination, said program causing a computer to execute processes wherein:

a server device, upon receiving a message that has been transmitted
from a terminal device that is the transmission origin, submits a position
15 request to the terminal device that is the transmission origin that has
transmitted the message that has been received;

said terminal device that is the transmission origin receives the
position request from said server device and acquires position;

20 said server device appends the position information of said terminal
device that is the transmission origin that has been transmitted in response
to the position request to said terminal device that is the transmission origin
to said transmission message as position information of the position at which
said transmission message is to be received and stores the message;

said server device extracts a destination address and position information from the message that has been stored and submits a position request to the transmission destination terminal device of the destination address;

- 5 the terminal device that is the transmission destination receives the position request from said server device and acquires position; said terminal device that is the transmission destination transmits said position information that has been acquired to said server device;
- 10 said server device transmits said transmission message to said transmission destination terminal device when position information that is appended to said transmission message matches with position information from said transmission destination terminal device that has been transmitted in response to said position request.